



RPMI-1640

With 25mM HEPES buffer, Sodium Pyruvate and Sodium bicarbonate Without L-Glutamine

Product Code: AL157

Product Description:

Roswell Park Memorial Institute (RPMI) media are a series of media developed by Moore et al for the culture of human normal and neoplastic cells in vitro. RPMI-1640 is the most commonly used medium in the series. A modification of McCoy's 5A medium, the medium was specifically designed to support the growth of human lymphoblastoid cells in suspension culture. Presently the medium is extensively used for a wide range of anchorage dependant cell lines. The medium needs to be supplemented with 5-20% fetal bovine serum. The medium is also known to support growth of cells in the absence of serum.

AL157 is RPMI-1640 medium supplemented with 25mM HEPES buffer, sodium pyruvate and sodium bicarbonate. It does not contain L-glutamine. HEPES, a zwitterionic buffer having a pKa of 7.3 at 37°C prevents the initial rise in pH that tends to occur at the initiation of a culture and increases the buffering capacity of the medium. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition: Ingredients mg/L INORGANIC SALTS 100.000 Calcium nitrate tetrahydrate Disodium hydrogen phosphate anhydrous 800.000 Magnesium sulphate anhydrous 48.840 Potassium chloride 400.000 Sodium bicarbonate 2000.000 Sodium chloride 6000.000 AMINO ACIDS 10.000 Glycine 241.870 L-Arginine hydrochloride 50.000 L-Asparagine monohydrate 20.000 L-Aspartic acid 65.150 L-Cystine dihydrochloride L-Glutamic acid 20.000

L-Histidine hydrochloride monohydrate	20.960
L-Hydroxyproline	20.000
L-Isoleucine	50.000
L-Leucine	50.000
L-Lysine hydrochloride	40.000
L-Methionine	15.000
L-Phenylalanine	15.000
L-Proline	20.000
L-Serine	30.000
L-Threonine	20.000
L-Tryptophan	5.000
L-Tyrosine disodium salt dihydrate	28.830
L-Valine	20.000
VITAMINS	
Choline chloride	3.000
D-Biotin	0.200
D-Ca-Pantothenate	0.250
Folic acid	1.000
Niacinamide	1.000
Pyridoxine hydrochloride	1.000
Riboflavin	0.200
Thiamine hydrochloride	1.000
Vitamin B12	0.005
i-Inositol	35.000
p-Amino benzoic acid (PABA)	1.000
OTHERS	
D-Glucose	2000.000
Glutathione reduced	1.000
HEPES Buffer	5958.000
Phenol red sodium salt	5.300
Sodium pyruvate	110.000
Sourian pyruvaio	110.000

Directions:

1. Add 10.3ml of 200mM L-glutamine (TCL012) for 1 litre of medium.

Material required but not provided:

L-Glutamine solution 200mM (TCL012)

Quality Control:

Appearance

Orange colored, clear solution.

рН 7.00 - 7.60

Osmolality in mOsm/Kg H₂O

270.00 - 310.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts.

Endotoxin Content

NMT 1EU/ml

Storage and Shelf Life:

Store at 2-8°C away from bright light. Shelf life is 18 months. Use before expiry date given on the product label.

Disclaimer :

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